

SEQUENCE LISTING

<110> Pagratis, Nikos
Lochrie, Michael
Gold, Larry

<120> High Affinity TGFBeta Nucleic Acid Ligands and
Inhibitors

<130> NEX87

<140> 09/363,939

<141> 1999-07-29

<150> 09/046,247

<151> 1998-03-23

<150> 08/458,424

<151> 1995-06-02

<150> 07/714,131

<151> 1991-06-10

<150> 07/931,473

<151> 1992-08-17

<150> 07/964,624

<151> 1992-10-21

<150> 08/117,991

<151> 1993-09-08

<150> 07/536,428

<151> 1990-06-11

<160> 216

<170> PatentIn Ver. 2.0

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<222> (1)..(71)

<223> Feature N at positions 17-56 is A, C, G or T.

<400> 1

tcgggcgagt cgtctgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnccgc 60
atcgtcctcc c 71

<210> 2
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<400> 2
taatacgact cactataggg aggacgatgc gg 32

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Sequence

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tcgggcgagt cgtctg 16

<210> 4
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<222> (1)..(88)
<223> Feature N at positions 33-72 is A, C, G or T.

<400> 4
taatacgact cactataggg aggacgatgc ggnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60
nnnnnnnnnn nncagacgac tcgcccga 88

<210> 5
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<223> Feature N at positions 33-72 is A, C, G or T.

<400> 5
attatgctga gtgatataccc tctgtctacg ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nngtctgctg agcgggct 88

<210> 6
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Sequence

<220>
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<222> (1)..(71)
<223> All pyrimidines are 2'F; feature N at positions
16-55 is A, 2'-FC, G or 2'-FU.

<400> 6
gggaggacga ugcggnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncagac 60
gacucgcccg a 71

<210> 7
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(65)
<223> Feature N at positions 16-49 is SEQ ID NO: 115
and A, C, G or T.

<400> 7
gggaggacga tgcggnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc agacgactcg 60
cccgga 65

<210> 8
<211> 82
<212> DNA
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Sequence

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<222> (1)..(82)
<223> Feature N at positions 33-66 is SEQ ID NO: 115 and
A, C, G or T.

<400> 8
 taatacgact cactataggg aggacgatgc ggnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnncaga cgactcgccc ga 82

<210> 9
 <211> 82
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 A, C, G or T.

<400> 9
 attatgctga gtgatatccc tcttgctacg ccnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnngtct gctgagcggg ct 82

<210> 10
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<220>
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 <223> All pyrimidines are 2'F; feature N at positions
 16-49 is SEQ ID NO: 115 and A, 2'-FC, G or 2'-FU.

<400> 10
 gggaggacga ugcggnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc agacgacucg 60
 cccga 65

<210> 11
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<220>
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<400> 11
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<210> 12
 <211> 38
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<213> Artificial Sequence

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<400> 12

ggcagaattc tcacttactt agtcgggcga gtcgtctg

38

<210> 13

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

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<400> 13

agcggataac aatttcacac agg

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<210> 14

<211> 23

<212> DNA

<213> Artificial Sequence

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<400> 14

gtgctgcaag gcgattaagt tgg

23

<210> 15

<211> 19

<212> DNA

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actttatgct tccggctcg

19

<210> 16

<211> 19

<212> DNA

<213> Artificial Sequence

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<400> 16

gccaaatgcc gagagaacg

19

<210> 17
 <211> 18
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 <400> 17
 ggggacaagc ggacttag 18

 <210> 18
 <211> 18
 <212> DNA
 <213> Artificial Sequence

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 <400> 18
 gggagtacag ctatacag 18

 <210> 19
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 <220>
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 <222> (1)..(15)
 <223> Bases at positions 5-15 are 2'-OMe.

 <400> 19
 ccgcaugcuc cuccc 15

 <210> 20
 <211> 14
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <220>
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 <222> (1)..(12)
 <223> Bases at positions 1-12 are 2'-OMe.

 <400> 20
 ucgggcgagu cgcg 14

<210> 21
<211> 61
<212> RNA
<213> Artificial Sequence

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Sequence

<220>
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<222> (1)..(61)
<223> All pyrimidines are 2'F.

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a 61

<210> 22
<211> 71
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<400> 22
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gacucgcccg a 71

<210> 23
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(71)
<223> All pyrimidines are 2'F.

<400> 23
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gacucgcccg a 71

<210> 24
<211> 71

<212> RNA
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 gacucgcccg a 71

<210> 25
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 <212> RNA
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 <223> All pyrimidines are 2'F.

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<210> 26
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 gacucgcccg a 71

<210> 27
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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 <220>
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 <400> 27
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 gacucgcccg a 71

 <210> 28
 <211> 71
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 <220>
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 <223> All pyrimidines are 2'F.

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 gacucgcccg g 71

 <210> 29
 <211> 71
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <223> All pyrimidines are 2'F.

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 gacucgcccg a 71

 <210> 30
 <211> 71
 <212> RNA
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 <223> All pyrimidines are 2'F.

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 gacucgccc a 71

<210> 31
 <211> 71
 <212> RNA
 <213> Artificial Sequence

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 <223> All pyrimidines are 2'F.

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 gacucgccc a 71

<210> 32
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

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 gacucgccc g 71

<210> 33
 <211> 71
 <212> RNA
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<220>
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<222> (1)..(71)
 <223> All pyrimidines are 2'F.

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 gacucgccc a 71

<210> 34
 <211> 71
 <212> RNA
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 <223> All pyrimidines are 2'F.

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 gacucgccc a 71

<210> 35
 <211> 61
 <212> RNA
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 <223> All pyrimidines are 2'F.

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<210> 36
 <211> 71
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<400> 36
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 gacucgcccg a 71

<210> 37
 <211> 69
 <212> RNA
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<220>
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<220>
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 <223> All pyrimidines are 2'F.

<400> 37
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 cucgcccga 69

<210> 38
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<220>
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<220>
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 <223> All pyrimidines are 2'F.

<400> 38
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 gacucgcccg a 71

<210> 39
 <211> 70
 <212> RNA
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<220>
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<220>
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 <223> All pyrimidines are 2'F.

<400> 39
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 acucgcccga 70

<210> 40
<211> 71
<212> RNA
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<223> All pyrimidines are 2'F.

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gacucgcccg a 71

<210> 41
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(71)
<223> All pyrimidines are 2'F.

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gacucgcccg a 71

<210> 42
<211> 70
<212> RNA
<213> Artificial Sequence

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<223> All pyrimidines are 2'F.

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acucgcccga 70

<210> 43
<211> 71

<212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

<400> 43
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 gacucgccc a 71

<210> 44
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

<400> 44
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 gacucgccc a 71

<210> 45
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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 <223> All pyrimidines are 2'F.

<400> 45
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 gacucgccc a 71

<210> 46
 <211> 70
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(70)
 <223> All pyrimidines are 2'F.

<400> 46
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 acucgcccga 70

<210> 47
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <223> All pyrimidines are 2'F.

<400> 47
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 gacucgcccg a 71

<210> 48
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
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 <223> All pyrimidines are 2'F.

<400> 48
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 gacucgcccg a 71

<210> 49
 <211> 61
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(61)
 <223> All pyrimidines are 2'F.

<400> 49
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 a 61

<210> 50
 <211> 71
 <212> RNA
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 <223> All pyrimidines are 2'F.

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 gacucgcccg a 71

<210> 51
 <211> 70
 <212> RNA
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<220>
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<400> 51
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 acucgcccg 70

<210> 52
 <211> 70
 <212> RNA
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<220>
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<222> (1)..(70)
 <223> All pyrimidines are 2'F.

<400> 52
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 acucgccga 70

<210> 53
 <211> 71
 <212> RNA
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<220>
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<220>
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<222> (1)..(71)
 <223> All pyrimidines are 2'F.

<400> 53
 gggaggacga ugcggucuug auccuccuuu gugucuucu uugucuuccc ugcccagac 60
 gacugcccg a 71

<210> 54
 <211> 70
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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<222> (1)..(70)
 <223> All pyrimidines are 2'F.

<400> 54
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 acucgccga 70

<210> 55
 <211> 70
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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<222> (1)..(70)
 <223> All pyrimidines are 2'F.

<400> 55
 gggaggacga ugcgguccga ucaguuccuu cgauuaaucu ucuuuccugc cccccagacg 60
 acucgcccga 70

<210> 56
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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 Sequence

<220>
 <221> modified_base
 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

<400> 56
 gggaggacga ugcggaaucc uucucccuga ugaauaugac cuuuuucug cuccccagac 60
 gacucgcccg a 71

<210> 57
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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 Sequence

<220>
 <221> modified_base
 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

<400> 57
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 gacucgcccg a 71

<210> 58
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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 Sequence

<220>
 <221> modified_base
 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

<400> 58
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gacucgccccg a

71

<210> 59

<211> 61

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(61)

<223> All pyrimidines are 2'F.

<400> 59

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a 61

<210> 60

<211> 71

<212> RNA

<213> Artificial Sequence

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<220>

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 60

gggaggacga ugcggucuaac ccuuuagcag uauuuuguuuc caucguuguu ugccccagac 60
gacucgccccg a 71

<210> 61

<211> 70

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(70)

<223> All pyrimidines are 2'F.

<400> 61

gggaggacga ugcggcaca uauucuccuc uacuuccacg uauuuuccug uccccagacg 60
acucgccccga 70

<210> 62

<211> 71
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic Sequence

 <220>
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 <223> All pyrimidines are 2'F.

 <400> 62
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 gacucgccc a 71

 <210> 63
 <211> 71
 <212> RNA
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 <220>
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 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

 <400> 63
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 gacucgccc a 71

 <210> 64
 <211> 71
 <212> RNA
 <213> Artificial Sequence

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 <220>
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 <223> All pyrimidines are 2'F.

 <400> 64
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 gacucgccc a 71

 <210> 65
 <211> 71
 <212> RNA
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<220>
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<220>
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 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

<400> 65
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 gacucgcccg a 71

<210> 66
 <211> 71
 <212> RNA
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<220>
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<220>
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 <223> All pyrimidines are 2'F.

<400> 66
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 gacucgcccg a 71

<210> 67
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <223> All pyrimidines are 2'F.

<400> 67
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 gacucgcccg a 71

<210> 68
 <211> 71
 <212> RNA
 <213> Artificial Sequence

<220>
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Sequence

<220>

<221> modified_base

<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 68

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gacucgcccg a 71

<210> 69

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

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<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 69

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cccga 65

<210> 70

<211> 71

<212> RNA

<213> Artificial Sequence

<220>

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<223> All pyrimidines are 2'F.

<400> 70

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gacucgcccg a 71

<210> 71

<211> 60

<212> RNA

<213> Artificial Sequence

<220>

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 <223> All pyrimidines are 2'F.

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 <210> 72
 <211> 71
 <212> RNA
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 <220>
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 <223> All pyrimidines are 2'F.

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 gacugcccg a 71

 <210> 73
 <211> 70
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <223> All pyrimidines are 2'F.

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 acugcccga 70

 <210> 74
 <211> 71
 <212> RNA
 <213> Artificial Sequence

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 <223> All pyrimidines are 2'F.

<400> 74
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gacucgcccg a 71

<210> 75
<211> 71
<212> RNA
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<223> All pyrimidines are 2'F.

<400> 75
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gacucgcccg a 71

<210> 76
<211> 70
<212> RNA
<213> Artificial Sequence

<220>
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<223> All pyrimidines are 2'F.

<400> 76
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acucgcccga 71

<210> 77
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

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<223> All pyrimidines are 2'F.

<400> 77
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gacucgcccg a 71

<210> 78
<211> 70
<212> RNA
<213> Artificial Sequence

<220>
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<223> All pyrimidines are 2'F.

<400> 78
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acucgcccga 70

<210> 79
<211> 71
<212> RNA
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<220>
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<400> 79
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gacucgcccg a 71

<210> 80
<211> 70
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

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<223> All pyrimidines are 2'F.

<400> 80
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acucgcccga 70

<210> 81
<211> 71

<212> RNA
 <213> Artificial Sequence

 <220>
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 <222> (1)..(71)
 <223> All pyrimidines are 2'F.

 <400> 81
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 gacucgccc a 71

 <210> 82
 <211> 71
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <400> 82
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 gacucgccc a 71

 <210> 83
 <211> 71
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <400> 83
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 gacucgccc a 71

 <210> 84
 <211> 70
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(70)
 <223> All pyrimidines are 2'F.

<400> 84
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 acucgcccga 70

<210> 85
 <211> 70
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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<400> 85
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 cuucgcccga 70

<210> 86
 <211> 71
 <212> RNA
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<220>
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<400> 86
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 gacucgcccg a 71

<210> 87
 <211> 70
 <212> RNA
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<400> 87
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 acucgcccga 70

<210> 88
 <211> 70
 <212> RNA
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<220>
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<400> 88
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 acucgcccga 70

<210> 89
 <211> 57
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<220>
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 <222> (1)..(57)
 <223> All pyrimidines are 2'F.

<400> 89
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<210> 90
 <211> 56
 <212> RNA
 <213> Artificial Sequence

<220>
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 <222> (1)..(56)

<223> All pyrimidines are 2'F.

<400> 90
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<210> 91
<211> 43
<212> RNA

<213> Artificial Sequence

<220>
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Sequence

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<222> (1)..(43)
<223> All pyrimidines are 2'F.

<400> 91
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<210> 92
<211> 36
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(36)
<223> All pyrimidines are 2'F.

<400> 92
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<210> 93
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<212> RNA
<213> Artificial Sequence

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Sequence

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<222> (1)..(34)
<223> All pyrimidines are 2'F.

<400> 93
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<210> 94
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<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(30)
<223> All pyrimidines are 2'F.

<400> 94
ggagguuauu acagagucug uauagcugua

30

<210> 95
<211> 26
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<213> Artificial Sequence

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<223> All pyrimidines are 2'F.

<400> 95
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26

<210> 96
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<212> RNA
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<220>
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<400> 96
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30

<210> 97
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<223> All pyrimidines are 2'F.

<400> 97

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30

<210> 98

<211> 26

<212> RNA

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<400> 98

ggagguuauu agagucuaua gccucc

26

<210> 99

<211> 33

<212> RNA

<213> Artificial Sequence

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<223> All pyrimidines are 2'F.

<400> 99

ggagguuauu acagagucug uauagcugua cuc

33

<210> 100

<211> 32

<212> RNA

<213> Artificial Sequence

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<222> (1)..(32)

<223> All pyrimidines are 2'F.

<400> 100
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<210> 101
<211> 31
<212> RNA
<213> Artificial Sequence

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<220>
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<222> (1)..(31)
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<400> 101
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<210> 102
<211> 33
<212> RNA
<213> Artificial Sequence

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<400> 102
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<210> 103
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
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<220>
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<400> 103
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<210> 104

<211> 32
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 <400> 104
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 <210> 105
 <211> 33
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 <400> 105
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 <210> 106
 <211> 33
 <212> RNA
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 <400> 106
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 <210> 107
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 <212> RNA
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<400> 107

ggagguuauu acaaguugua uagcuguacu cc

32

<210> 108

<211> 33

<212> RNA

<213> Artificial Sequence

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<222> (1)..(33)

<223> All pyrimidines are 2'F.

<400> 108

ggagguuauu acagaguugu auagcuguac ucc

33

<210> 109

<211> 32

<212> RNA

<213> Artificial Sequence

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<222> (1)..(32)

<223> All pyrimidines are 2'F.

<400> 109

gggguuauua cagagucugu auagcuguac cc

32

<210> 110

<211> 32

<212> RNA

<213> Artificial Sequence

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<220>

<221> modified_base

<222> (1)..(32)

<223> All pyrimidines are 2'F.

<400> 110
ggagguuuuu acgagucugu auagcguacu cc 32

<210> 111
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(33)
<223> All pyrimidines are 2'F.

<400> 111
ggagauuuua cagagucugu auagcuguac ucc 33

<210> 112
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(30)
<223> All pyrimidines are 2'F.

<400> 112
gggguuauuc agagucugua uagcugaccc 30

<210> 113
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(30)
<223> All pyrimidines are 2'F.

<400> 113
gggguuauua agagucugua uagcuuaccc 30

<210> 114

<211> 36
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic Sequence

 <220>
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 <222> (1)..(36)
 <223> All pyrimidines are 2'F.

 <400> 114
 ggagguuauu acagagucug uauagcugua cucccc 36

 <210> 115
 <211> 34
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <222> (1)..(34)
 <223> All pyrimidines are 2'F.

 <400> 115
 ggagguuauu acagagucug uauagcugua cucc 34

 <210> 116
 <211> 37
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <220>
 <221> modified_base
 <222> (1)..(37)
 <223> All pyrimidines are 2'F.

 <400> 116
 ggagguuauu acagagucug uauagcugua cucccca 37

 <210> 117
 <211> 30
 <212> RNA
 <213> Artificial Sequence

 <220>
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Sequence

<220>

<221> modified_base

<222> (1)..(30)

<223> All pyrimidines are 2'F.

<400> 117

ggagguuauu acagagucug uauagcugua

30

<210> 118

<211> 33

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

<221> modified_base

<222> (1)..(33)

<223> All pyrimidines are 2'F.

<400> 118

gagguuauua cagagucugu auagcuguac ucc

33

<210> 119

<211> 32

<212> RNA

<213> Artificial Sequence

<220>

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Sequence

<220>

<221> modified_base

<222> (1)..(32)

<223> All pyrimidines are 2'F.

<400> 119

agguuauuac agagucugua uagcuguacu cc

32

<210> 120

<211> 31

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(31)

<223> All pyrimidines are 2'F.

<400> 120
 gguuauuaca gagucuguau agcuguacuc c 31

<210> 121
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(34)
 <223> All pyrimidines are 2'F.

<400> 121
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 122
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<400> 122
 Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser Thr Glu Lys Asn Cys Cys
 1 5 10 15
 Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp
 20 25 30
 Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro Cys
 35 40 45
 Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys
 50 55 60

<210> 123
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<400> 123
 Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys
 1 5 10 15

Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp
20 25 30

Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys
35 40 45

Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg
50 55 60

<210> 124
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 124
Ala Leu Asp Thr Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys Cys
1 5 10 15

Val Arg Pro Leu Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys Trp
20 25 30

Val His Glu Pro Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly Pro Cys
35 40 45

Pro Tyr Leu Arg Ser Ala Asp Thr Thr His Ser Thr
50 55 60

<210> 125
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 125
Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro
1 5 10 15

Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val
20 25 30

Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser
35 40 45

Cys Lys Cys Ser
50

<210> 126

<211> 52
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 126

Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro
1 5 10 15

Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile
20 25 30

Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser
35 40 45

Cys Lys Cys Ser
50

<210> 127

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 127

Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser Ala Ser Pro
1 5 10 15

Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Val
20 25 30

Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val Val Lys Ser
35 40 45

Cys Lys Cys Ser
50

<210> 128

<211> 58

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(58)

<223> All pyrimidines are 2'F.

<400> 128
ggaaguaacg uuguaguaaa auucguucuc ucggcauuug gccagacgac ucgcccga 58

<210> 129
<211> 57
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(57)
<223> All pyrimidines are 2'F.

<400> 129
gggaggacga ugcggaagua acguuguagu aaaauucguu cucucggcau uuggcca 57

<210> 130
<211> 44
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(44)
<223> All pyrimidines are 2'F.

<400> 130
ggaaguaacg uuguaguaaa auucguucuc ucggcauuug gcca 44

<210> 131
<211> 38
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(38)
<223> All pyrimidines are 2'F.

<400> 131
gggagggaugc ggaaguaacg uuguaguaaa auuccuuc 38

<210> 132
<211> 35
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(35)
<223> All pyrimidines are 2'F.

<400> 132
gggagggaugc ggaaguaacg uuguaguaaa auucc 35

<210> 133
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(32)
<223> All pyrimidines are 2'F.

<400> 133
gggagggaugc ggaaguaacg uuguaguaaa au 32

<210> 134
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(33)
<223> All pyrimidines are 2'F.

<400> 134
gggagggaugc ggaaguaacg uuguaguucc uuc 33

<210> 135
<211> 27
<212> RNA
<213> Artificial Sequence

<220>
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 <220>
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 <222> (1)..(27)
 <223> All pyrimidines are 2'F.

 <400> 135
 gggaggauGC ggaaguaacg uuguagu 27

 <210> 136
 <211> 20
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic Sequence

 <220>
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 <222> (1)..(20)
 <223> All pyrimidines are 2'F.

 <400> 136
 gggaggagua acguuguagu 20

 <210> 137
 <211> 58
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic Sequence

 <220>
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 <222> (1)..(58)
 <223> All pyrimidines are 2'F.

 <400> 137
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 <210> 138
 <211> 57
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic Sequence

 <220>
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<222> (1)..(57)
 <223> All pyrimidines are 2'F.

 <400> 138
 gggaggacga ugcggcguug uuuagucgua uguauauacu aaguccgcuu gucccca 57

 <210> 139
 <211> 44
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

 <220>
 <221> modified_base
 <222> (1)..(44)
 <223> All pyrimidines are 2'F.

 <400> 139
 ggcguuguuu agucguaugu auauacuaag uccgcuuguc ccca 44

 <210> 140
 <211> 44
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

 <220>
 <221> modified_base
 <222> (1)..(44)
 <223> All pyrimidines are 2'F.

 <400> 140
 ggggagcggc guuguuuagu cguauguaua uacuaagucc gcuu 44

 <210> 141
 <211> 29
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

 <220>
 <221> modified_base
 <222> (1)..(29)
 <223> All pyrimidines are 2'F.

 <400> 141
 ggggagcggc guuguugaaa aguccgcuu 29

<210> 142
<211> 38
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(38)
<223> All pyrimidines are 2'F.

<400> 142
ggggagcggc guuguuucgu auguauauaa guccgcuu 38

<210> 143
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(33)
<223> All pyrimidines are 2'F.

<400> 143
ggggagcggc guuguuuuug uauaaguccg cuu 33

<210> 144
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(42)
<223> All pyrimidines are 2'F.

<400> 144
ggggagcggc guuguuuagu cguauguaua uacuaagucc gc 42

<210> 145
<211> 38
<212> RNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
 <221> modified_base
 <222> (1)..(38)
 <223> All pyrimidines are 2'F.

<400> 145
 ggggagcggc guuguuuagu cguauguaua uacuaagu 38

<210> 146
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 146
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 ccga 65

<210> 147
 <211> 64
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
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 <222> (1)..(64)
 <223> All pyrimidines are 2'F.

<400> 147
 gggaggacga ugcggaggcg uuauuagaga gucuguauag cucuagcccc agacgacucg 60
 ccga 64

<210> 148
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
 <221> modified_base
 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 148
 gggaggacga ugcggggagg guauuacaga guauguauag cuguacuccc agacgacucg 60
 cccga 65

<210> 149
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
 <221> modified_base
 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 149
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 cccga 65

<210> 150
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
 <221> modified_base
 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 150
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 cccga 65

<210> 151
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
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 <222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 151
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 cccga 65

<210> 152
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 152
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 cccga 65

<210> 153
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 153
 gggaggacga ugcggggcgga uuauucacaga guauguauag cugugccgcc agacgacucg 60
 cccga 65

<210> 154
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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 Sequence

<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 154
gggaggacga ugcggguguga auauuagaga gucuguauag cucuaccccc agacgacucg 60
cccga 65

<210> 155
<211> 65
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(65)
<223> All pyrimidines are 2'F.

<400> 155
gggaggacga ugcgggcggga uuauuacuga gucuguauag caguaccccc agacgacucg 60
cccga 65

<210> 156
<211> 65
<212> RNA
<213> Artificial Sequence

<220>
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Sequence

<220>
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<222> (1)..(65)
<223> All pyrimidines are 2'F.

<400> 156
gggaggacga ugcggggugga auauuacgga gucuguauag ccguacuccc agacgacucg 60
cccga 65

<210> 157
<211> 65
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(65)
<223> All pyrimidines are 2'F.

<400> 157
gggaggacga ugcggggggga cuauuaguga gucuguauag cacuaccccc agacgacucg 60
cccga 65

<210> 158
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 158
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 cccga 65

<210> 159
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 159
 gggaggacga ugcgggcagg uuauuacaga gucuguauag cuguacugcc agacgacucg 60
 cccga 65

<210> 160
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 160
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 cccga 65

<210> 161
 <211> 65

<212> RNA
 <213> Artificial Sequence

 <220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

 <400> 161
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 cccga 65

 <210> 162
 <211> 65
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

 <400> 162
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 cccga 65

 <210> 163
 <211> 65
 <212> RNA
 <213> Artificial Sequence

 <220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

 <400> 163
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 cccga 65

 <210> 164
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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 Sequence

<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 164
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 cccga 65

<210> 165
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 165
 gggaggacga ugcggaggga auauuacaga guauguauag cuguaccccc agacgacucg 60
 cccga 65

<210> 166
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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 Sequence

<220>
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 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 166
 gggaggacga ugcggggagu uuauuacagc gucuguauau cuguagcccc agacgacucg 60
 cccga 65

<210> 167
 <211> 65
 <212> RNA
 <213> Artificial Sequence

<220>
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Sequence

<220>

<221> modified_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 167

gggaggacga ugcgggugagg uuauuacaga gucuguauag cuguacuccc agacgacucg 60
cccga 65

<210> 168

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 168

gggaggacga ugcgggggugg uuauuagaga gucuguauag cucuacgccc agacgacucg 60
cccga 65

<210> 169

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base

<222> (1)..(65)

<223> All pyrimidines are 2'F.

<400> 169

gggaggacga ugcggggggga guauuaaaga gucuguauag cuuuaccccc agacgacucg 60
cccga 65

<210> 170

<211> 65

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<220>

<221> modified_base
 <222> (1)..(65)
 <223> All pyrimidines are 2'F.

<400> 170
 gggaggacga ugcggggagg auauuauaga gucuguauag cuauaccccc agacgacug 60
 cccga 65

<210> 171
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
 <221> modified_base
 <222> (1)..(34)
 <223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 13-16, 20, 22, 24-25, 28 and 30 are 2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 171
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 172
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
 <221> modified_base
 <222> (1)..(34)
 <223> All pyrimidines are 2'F; a's and g's at positions 11, 13-16, 20, 22, 24-25, 28 and 30 are 2'OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 172
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 173
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Sequence

<220>
 <221> modified_base

<222> (1)..(34)
 <223> All pyrimidines are 2'F; a's and g's at positions
 1-4 are 2'OCH3; linkage at positions 34 and 35 is
 3'-3'.

<400> 173
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 174
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(34)
 <223> All pyrimidines are 2'F; a's and g's at positions
 5, 8, and 11 are 2'OCH3; linkage at positions 34
 and 35 is 3'-3'.

<400> 174
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 175
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(34)
 <223> All pyrimidines are 2'F; a' and g's at positions
 13-16 are 2'-OCH3; linkage at positions 34 and 35
 is 3'-3'.

<400> 175
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 176
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base

<222> (1)..(34)
 <223> All pyrimidines are 2'F; a's and g's at positions
 20, 22 and 24 are 2'-OCH3; linkage at positions 34
 and 35 is 3'-3'.

<400> 176
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 177
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(34)
 <223> All pyrimidines are 2'F; a's and g's at positions
 25, 28 and 30 are 2'-OCH3; linkage at positions 34
 and 35 is 3'-3'.

<400> 177
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 178
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(34)
 <223> All pyrimidines are 2'F; g at position 20 is
 2'-OCH3; linkage at positions 34 and 35 is 3'-3'.

<400> 178
 ggagguuauu acagagucug uauagcugua cucc 34

<210> 179
 <211> 34
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<220>
 <221> modified_base
 <222> (1)..(34)

<223> All pyrimidines are 2'F; a at position 22 is 2'-OCH3; linkage at positions 34 and 35 is 3'-3'.

<400> 179
ggagguuauu acagagucug uauagcugua cucc 34

<210> 180

<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a at position 24 is 2'-OCH3; linkage at positions 34 and 35 is 3'-3'.

<400> 180
ggagguuauu acagagucug uauagcugua cucc 34

<210> 181
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions 1-5, 8, 11, 25 and 30 are 2'-OCH3; linkage at positions 34 and 35 is 3'-3'.

<400> 181
ggagguuauu acagagucug uauagcugua cucc 34

<210> 182
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions

1-5, 8, 11, 13-16, 24-25, 28 and 30 are 2'-OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 182
ggagguuauu acagagucug uauagcugua cucc 34

<210> 183
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
1-5, 8, 11, 13-16, 20, 24-25, 28 and 30 are
2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 183
ggagguuauu acagagucug uauagcugua cucc 34

<210> 184
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
1-5, 8, 11, 13-16, 25, 28 and 30 are 2'-OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 184
ggagguuauu acagagucug uauagcugua cucc 34

<210> 185
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
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<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions

1-5, 11, 13-16, 25, 28, and 30 are 2'-OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 185
ggagguuauu acagagucug uauagcugua cucc 34

<210> 186
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
1-4, 13-16, 25, 28 and 30 are 2'-OCH₃; linkage at
positions 34 and 35 is 3'-3'.

<400> 186
ggagguuauu acagagucug uauagcugua cucc 34

<210> 187
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(33)
<223> All pyrimidines are 2'F; a's and g's at positions
1-5, 10, 12-15 24, 27 and 29 are 2'-OCH₃; linkage
at positions 33 and 34 is 3'-3'.

<400> 187
ggagauauua cagagucugu auagcuguac ucc 33

<210> 188
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(32)
<223> All pyrimidines are 2'F; a's and g's at positions

1-4, 10, 12-15, 24, 27 and 29 are 2'-OCH₃; linkage at positions 32 and 33 is 3'-3'.

<400> 188
gggguaauua cagagucugu auagcuguac cc 32

<210> 189

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; linkage at positions 34 and 35 is 3'-3'.

<400> 189
ugugaauauu agagagucug uauagcucua cccc 34

<210> 190

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions 2, 4-5, 8, 11, 13-16, 24-25 and 30 are 2'-OCH₃; linkage at positions 34 and 35 is 3'-3'.

<400> 190
ugugaauauu agagagucug uauagcucua cccc 34

<210> 191

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; a's and g's at positions
2, 4-6, 8, 11-16, 20, 24-25, and 30 are 2'-OCH₃;
linkage at positions 34 and 35 is 3'-3'.

<400> 191
ugugaauauu agagagucug uauagcucua cccc

34

<210> 192
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
2, 4, 11, 13-16, 25 and 30 are 2'-OCH₃; linkage at
positions 34 and 35 is 3'-3'.

<400> 192
ugugaauauu agagagucug uauagcucua cccc

34

<210> 193
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Sequence

<220>
<221> modified_base
<222> (1)..(34)
<223> All pyrimidines are 2'F; a's and g's at positions
2, 4-6, 11-16, 25 and 30 are 2'-OCH₃; linkage at
positions 34 and 35 is 3'-3'.

<400> 193
ugugaauauu agagagucug uauagcucua cccc

34

<210> 194
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (1)..(42)
<223> A's and g's at positions 1-3 and 5 are 2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 194

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 195

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 12 and 16-18 are 2'OMe.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 195

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 196

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24 and 28 are 2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 196

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 197

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 30-31, 38 and 42 are 2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 197

gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 198

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 1, 21, 23-24 and 28 are

2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 198

gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 199

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 2, 21, 23-24 and 28 are

2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 199

gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 200

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 3, 21, 23-24 and 28 are

2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 200

gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 201
 <211> 42
 <212> RNA
 <213> Artificial Sequence

 <220>
 <221> modified_base
 <222> (1)..(42)
 <223> A's and g's at positions 5, 21, 23-24 and 28 are
 2'-OMe.

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

 <400> 201
 gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

 <210> 202
 <211> 42
 <212> RNA
 <213> Artificial Sequence

 <220>
 <221> modified_base
 <222> (1)..(42)
 <223> A's and g's at positions 12, 21, 23-24 and 28 are
 2'-OMe.

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

 <400> 202
 gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

 <210> 203
 <211> 42
 <212> RNA
 <213> Artificial Sequence

 <220>
 <221> modified_base
 <222> (1)..(42)
 <223> A's and g's at positions 16, 21, 23-24 and 28 are
 2'-OMe.

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

 <400> 203
 gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

 <210> 204
 <211> 42
 <212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 17, 21, 23-24 and 28 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 204

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 205

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 18, 21, 23-24, and 28 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 205

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 206

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 21, 23-24, 28 and 30 are
2'-OMe.

<220>

<223> Description of Artificial Sequence: Synthetic
Sequence

<400> 206

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 207

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base
 <222> (1)..(42)
 <223> A's and g's at positions 21, 23-24, 28 and 31 are
 2'-OMe.

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<400> 207
 gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 208
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <221> modified_base
 <222> (1)..(42)
 <223> A's and g's at positions 21, 23-24, 28 and 38 are
 2'-OMe.

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<400> 208
 gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 209
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <221> modified_base
 <222> (1)..(42)
 <223> A's and g's at positions 21, 23-24, 28 and 42 are
 2'-OMe.

<220>
 <223> Description of Artificial Sequence: Synthetic
 Sequence

<400> 209
 gggugccuuu ugccuagguu gugauuugua accuucugcc ca 42

<210> 210
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <221> modified_base
 <222> (1)..(42)
 <223> A's and g's at positions 1-3, 16-18, 21, 23-24,

28, 30-31 and 42 are 2'-OMe; linkage at positions 42 and 43 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 210

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 211

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(42)

<223> A's and g's at positions 1-3, 16-18, 21, 23-24, 28, 30 and 42 are 2'-OMe; linkage at positions 42 and 43 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 211

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42

<210> 212

<211> 41

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(41)

<223> A's and g's at positions 1-3, 16-18, 21, 23-24, 28 and 30-31 are 2'-OMe; linkage at positions 41 and 42 are 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 212

gggugccuuu ugccuagguu gugauuugua accuucugcc c

41

<210> 213

<211> 37

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(37)

<223> A's and g's at positions 1-3, 16-18, 21, 23, 25-26

and 37 are 2'-OMe; linkage at positions 37 and 38 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 213

gggugccuuu ugccuagguu guguaaccuu cugccca

37

<210> 214

<211> 35

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(35)

<223> A's and g's at positions 1-3, 16-18, 21, 23-24 and 35 are 2'-OMe; linkage at positions 35 and 36 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 214

gggugccuuu ugccuagguu guaaccuucu gccca

35

<210> 215

<211> 33

<212> RNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1)..(33)

<223> A's and g's at positions 1-3, 16-18, 21-22, and 33 are 2'-OMe; linkage at positions 33 and 34 is 3'-3'.

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 215

gggugccuuu ugccuagguu aaccuucugc cca

33

<210> 216

<211> 42

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Sequence

<400> 216

gggugccuuu ugccuagguu gugauuugua accuucugcc ca

42